

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P647930

Luminaire Tested: **GALN-SA5A-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-835-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15198.8 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

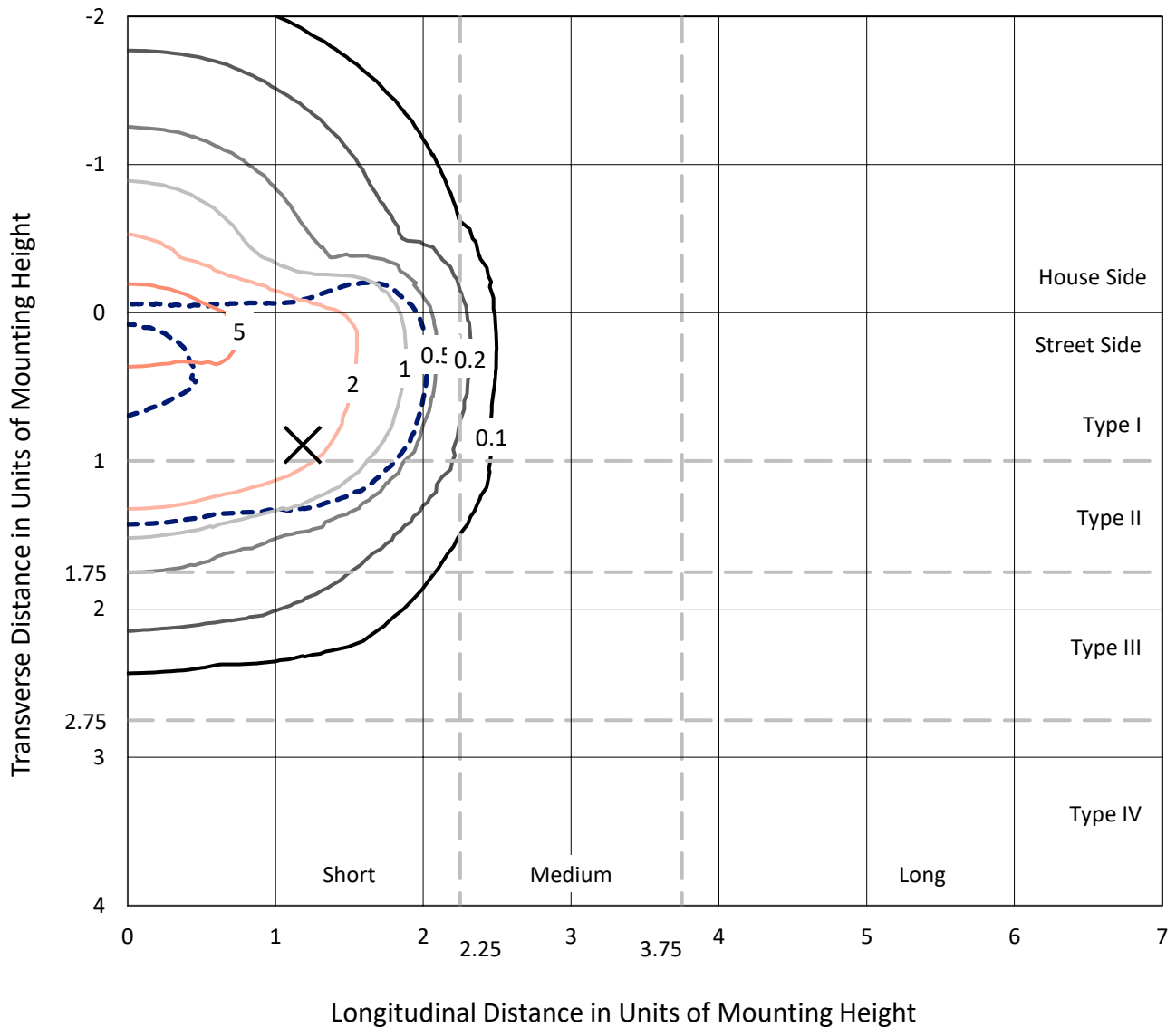
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

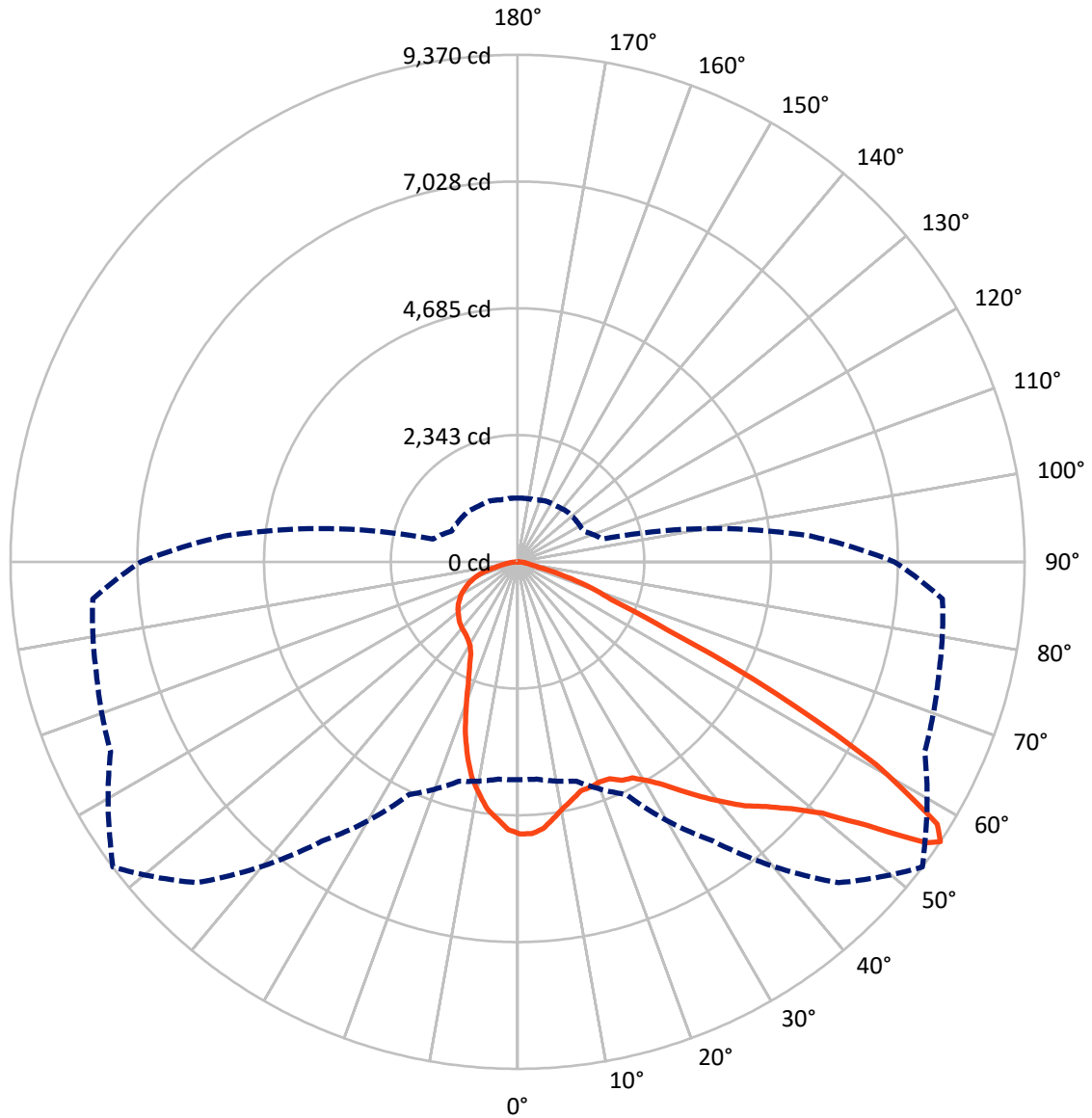
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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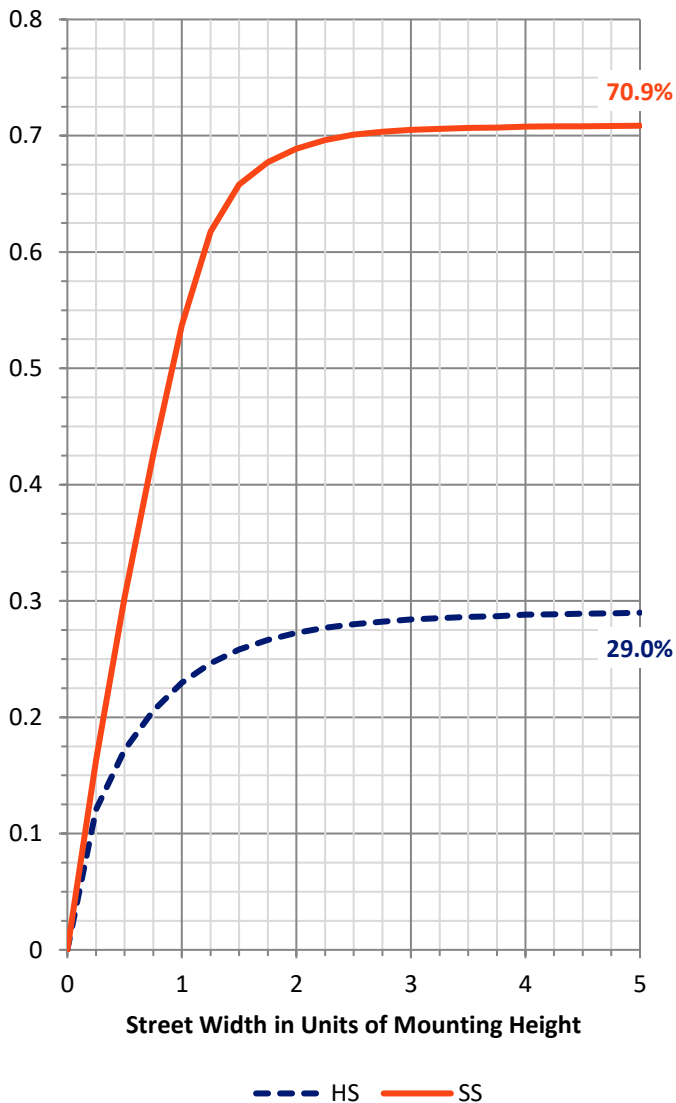
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4435.3	0.0	4435.3
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	10763.5	0.0	10763.5
	% Fixture	70.8	0.0	70.8
Total	Lumens	15198.8	0.0	15198.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.1	2.9
10°-20°	1111.8	7.3
20°-30°	1639.5	10.8
30°-40°	2342.5	15.4
40°-50°	3224.1	21.2
50°-60°	3810.0	25.1
60°-70°	2030.5	13.4
70°-80°	515.1	3.4
80°-90°	80.3	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	15198.8	100.0
0°-180°	15198.8	100.0

Coefficient of Utilization



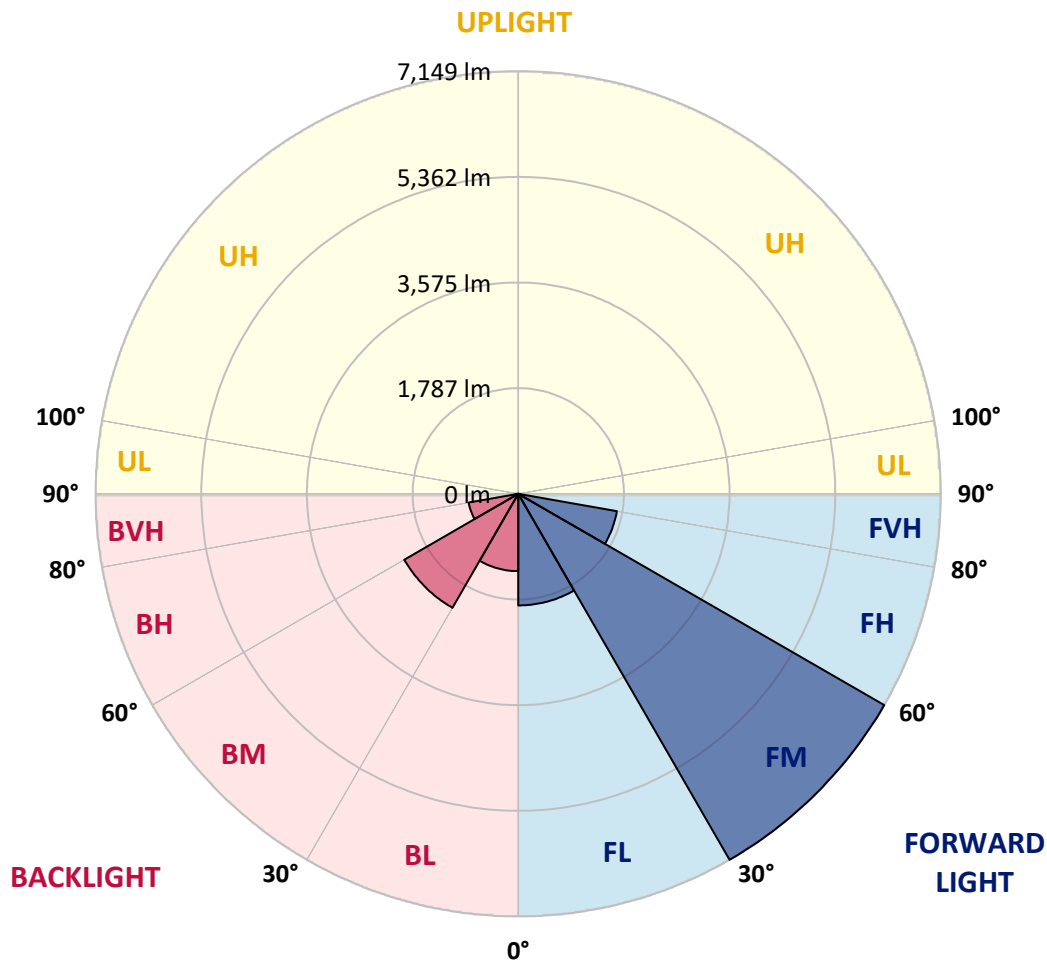
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1888.2	12.4			
FM (30°-60°)	7149.2	47.0			
FH (60°-80°)	1693.7	11.1			G1/1800
FVH (80°-90°)	32.3	0.2			G1/100
BL (0°-30°)	1308.2	8.6	B3/2500		
BM (30°-60°)	2227.3	14.7	B2/2500		
BH (60°-80°)	851.9	5.6	B2/1000		G2/1000
BVH (80°-90°)	48.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5028.3	5028.3	5028.3	5028.3	5028.3	5028.3	5028.3	5028.3	5028.3	5028.3	5028.3
2.5°	4965.9	4923.1	4948.4	4938.7	5018.6	5042.1	5030.3	5040.1	5084.9	5063.4	5018.6
5°	4640.4	4700.8	4712.5	4741.8	4788.5	4880.2	4952.3	4971.8	4993.3	5092.7	5082.9
7.5°	4344.0	4385.0	4363.5	4449.3	4550.7	4698.9	4786.6	4802.2	4999.1	5053.7	5094.7
10°	4156.9	4115.9	4213.4	4236.8	4351.8	4521.4	4626.7	4691.0	4870.4	5086.8	5112.2
12.5°	3983.3	3969.7	4028.1	4094.5	4223.1	4398.6	4505.9	4531.2	4808.0	5036.2	5155.1
15°	3854.6	3839.0	3897.5	3946.2	4096.4	4252.4	4388.9	4461.0	4739.8	5006.9	5118.1
17.5°	3753.2	3751.3	3784.5	3872.2	4026.2	4156.9	4377.1	4381.0	4704.7	5051.8	5149.2
20°	3747.4	3745.4	3751.3	3848.8	3989.2	4149.0	4340.1	4375.2	4704.7	5020.6	5151.2
22.5°	3796.1	3765.0	3800.1	3862.5	3963.8	4162.7	4353.8	4431.8	4817.8	5174.6	5239.0
25°	3874.1	3882.0	3901.5	3922.8	3981.3	4193.9	4474.6	4539.0	4950.4	5307.2	5359.8
27.5°	4016.5	4012.6	4020.4	4032.1	4082.7	4223.1	4523.4	4689.1	5227.2	5543.1	5490.5
30°	4225.1	4211.4	4242.6	4283.6	4236.8	4316.7	4685.2	4810.0	5484.6	5781.0	5636.7
32.5°	4414.2	4464.9	4523.4	4540.9	4484.4	4500.0	4899.7	5026.4	5699.1	6073.4	5816.0
35°	4650.1	4691.0	4769.0	4823.7	4813.9	4767.1	5192.2	5359.8	6009.1	6287.9	6005.2
37.5°	4880.2	4928.9	5057.6	5219.5	5129.7	5108.3	5504.1	5642.5	6104.6	6402.9	6143.7
40°	5250.6	5248.7	5471.0	5554.8	5634.7	5597.7	5827.8	5874.5	6155.3	6377.6	6147.5
42.5°	5685.4	5658.1	5884.3	6014.9	6118.3	6122.2	6165.0	6149.4	6178.7	6248.9	6106.5
45°	6098.8	6157.3	6385.4	6619.3	6722.7	6734.3	6449.7	6420.4	6219.7	6211.9	6028.6
47.5°	6603.7	6617.4	6804.6	7112.6	7352.4	7270.5	6818.2	6753.8	6399.1	6459.4	6159.2
50°	6633.0	6734.3	6902.1	7264.7	8001.7	7980.3	7295.9	7175.0	6687.6	6810.5	6523.8
52.5°	6020.8	5997.4	6196.3	6789.0	7952.9	8686.1	8087.5	7798.9	7307.6	7214.0	7114.6
55°	4587.8	4642.3	4817.8	5416.4	6906.0	8695.8	9165.7	8929.8	7970.5	7810.7	7695.6
56°	4024.2	4032.1	4197.7	4743.7	6301.5	8385.8	9370.4	9179.3	8300.0	8056.3	7880.8
57.5°	3336.0	3291.2	3376.9	3675.2	5318.8	7730.7	9146.2	9333.4	8686.1	8321.5	8077.7
60°	2626.3	2616.6	2581.5	2636.0	3361.3	5823.9	7613.7	8034.8	8647.1	8071.9	7736.5
62.5°	2144.7	2095.9	2166.2	2244.2	2335.8	3612.8	5350.1	5597.7	6865.0	6443.9	5812.1
65°	1663.1	1639.8	1727.5	1980.9	2035.5	2294.8	3047.4	3238.5	4053.5	3981.3	3505.6
67.5°	1144.5	1148.4	1224.5	1610.5	1887.3	1863.9	1865.9	1965.3	2115.4	1571.5	1368.7
70°	725.3	723.3	764.3	1037.2	1518.9	1534.4	1456.5	1427.2	1353.1	818.9	867.6
72.5°	466.0	452.3	473.8	573.2	785.7	908.6	935.8	953.5	783.8	643.4	698.0
75°	263.2	249.5	241.8	267.1	310.0	358.8	393.8	405.5	454.3	487.4	516.7
77.5°	79.9	72.1	87.8	117.0	154.0	206.6	251.5	259.3	306.1	345.1	374.4
80°	35.1	39.0	54.6	78.0	109.2	146.3	177.4	189.1	220.3	249.5	257.4
82.5°	21.5	23.4	37.0	52.6	76.0	103.4	126.8	130.6	161.8	185.3	191.1
85°	7.8	9.8	19.5	31.2	48.8	66.3	66.3	72.1	66.3	66.3	72.1
87.5°	0.0	0.0	2.0	3.9	3.9	5.9	7.8	7.8	9.8	11.7	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5028.3	5028.3	5028.3	5028.3	5028.3	5028.3	5028.3	5028.3	5028.3	5028.3	5028.3
2.5°	5042.1	5032.3	5016.7	4960.1	4954.3	4936.7	4839.3	4823.7	4839.3	4792.4	4796.3
5°	5032.3	5061.5	4944.6	4888.0	4782.7	4706.7	4618.9	4574.1	4494.1	4443.4	4500.0
7.5°	5075.2	5063.4	4917.2	4794.4	4636.5	4443.4	4289.4	4201.7	4061.3	4022.3	4051.6
10°	5059.6	4997.2	4825.6	4663.8	4365.5	4195.9	3946.2	3704.5	3571.9	3503.7	3493.9
12.5°	5038.1	5020.6	4733.9	4455.1	4141.2	3784.5	3433.5	3205.4	2988.9	2895.4	2909.0
15°	5063.4	4915.3	4562.4	4209.5	3792.2	3324.3	2946.0	2651.6	2501.5	2441.1	2441.1
17.5°	5051.8	4864.6	4480.5	3934.6	3406.2	2852.5	2437.2	2259.7	2197.3	2197.3	2214.9
20°	5057.6	4897.7	4314.8	3659.7	2950.0	2402.1	2099.8	2035.5	2062.8	2072.6	2082.3
22.5°	5090.8	4788.5	4153.0	3357.4	2526.8	2055.0	1906.8	1908.8	1957.5	2010.2	2000.4
25°	5131.7	4745.7	3956.0	3057.1	2203.2	1885.4	1838.6	1832.8	1869.8	1897.1	1901.0
27.5°	5096.6	4671.5	3755.2	2682.9	1938.0	1772.3	1762.5	1766.4	1778.2	1832.8	1815.2
30°	5211.6	4693.0	3503.7	2369.0	1791.8	1735.3	1723.5	1717.7	1735.3	1750.9	1737.2
32.5°	5354.0	4617.0	3316.5	2066.7	1719.7	1708.0	1684.5	1676.8	1686.5	1670.9	1678.8
35°	5416.4	4603.3	3072.8	1850.3	1663.1	1653.4	1639.8	1637.8	1639.8	1626.1	1614.4
37.5°	5451.5	4667.7	2794.0	1750.9	1628.0	1637.8	1606.6	1602.6	1567.6	1575.4	1581.3
40°	5511.9	4568.3	2567.8	1655.3	1606.6	1587.1	1559.8	1553.9	1530.5	1516.9	1530.5
42.5°	5424.2	4539.0	2345.6	1614.4	1575.4	1553.9	1534.4	1501.3	1493.5	1481.8	1474.0
45°	5354.0	4371.3	2146.7	1563.7	1538.4	1526.6	1489.6	1454.5	1425.3	1437.0	1419.4
47.5°	5406.6	4312.8	1949.7	1520.8	1487.6	1474.0	1437.0	1409.6	1380.4	1366.7	1362.9
50°	5617.2	4422.0	1784.0	1489.6	1444.8	1437.0	1388.2	1357.0	1329.7	1320.0	1323.9
52.5°	6120.2	4720.3	1670.9	1425.3	1403.8	1368.7	1341.4	1302.4	1284.9	1253.7	1273.2
55°	6757.8	5205.8	1641.6	1364.8	1353.1	1321.9	1284.9	1255.6	1222.5	1197.1	1191.3
56°	6962.5	5437.8	1618.3	1341.4	1321.9	1304.4	1255.6	1238.1	1185.5	1179.6	1175.7
57.5°	7128.2	5642.5	1622.1	1296.6	1277.1	1261.5	1232.2	1189.4	1154.2	1132.8	1142.6
60°	6753.8	5281.8	1548.1	1228.4	1224.5	1195.2	1154.2	1134.7	1091.8	1066.5	1060.7
62.5°	5020.6	3585.6	1255.6	1140.6	1138.6	1107.5	1060.7	1039.2	1031.4	996.3	996.3
65°	2891.5	2248.1	1086.0	1068.5	1052.8	1021.7	974.8	957.3	937.8	926.1	916.3
67.5°	1234.2	1166.0	986.6	984.6	967.1	928.1	881.3	854.0	828.6	805.2	816.9
70°	894.9	908.6	891.1	881.3	859.8	811.1	770.2	737.0	698.0	682.4	694.1
72.5°	709.7	738.9	764.3	766.2	740.9	684.3	639.5	594.7	551.8	530.3	540.1
75°	538.2	557.7	582.9	588.8	551.8	512.8	469.9	423.1	389.9	364.6	368.5
77.5°	388.0	384.1	407.5	403.6	386.0	358.8	319.8	276.9	239.8	216.4	218.4
80°	265.2	271.0	284.7	282.7	261.3	243.7	214.5	179.4	152.1	132.6	128.6
82.5°	185.3	195.0	206.6	196.9	179.4	161.8	140.4	115.0	93.6	78.0	74.1
85°	66.3	76.0	87.8	93.6	99.4	95.5	79.9	64.4	46.8	39.0	37.0
87.5°	13.6	15.6	17.5	17.5	17.5	15.6	13.6	13.6	11.7	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)